

BIRCH, STEWART, KOLASCH & BIRCH, LLP

INTELLECTUAL PROPERTY LAW

8110 GATEHOUSE ROAD

SUITE 500 EAST

FALLS CHURCH, VA 22042-1210

USA

(703) 205-8000

FAX: (703) 205-8050

(703) 698-8590 (G IV)

e-mail: mailroom@bskb.com

web: http://www.bskb.com

CALIFORNIA OFFICE

COSTA MESA, CALIFORNIA

03/06/02

TERRILL C. BIRCH
 RAYMOND C. STEWART
 JOSEPH A. KOLASCH
 JAMES M. SLATTERY
 BERNARD L. SWEENEY*
 MICHAEL K. MUTTER
 CHARLES GORENSTEIN
 GERALD M. MURPHY, JR.
 LEONARD R. SVENSSON
 ANDREW D. MEIKLE
 MARC S. WEINER
 JOE McKINNEY MUNCY
 ROBERT J. KENNEY
 JOHN W. BAILEY
 MARK J. NUELLE, PH.D.
 JAMES T. ELLER, JR.
 D. RICHARD ANDERSON

OF COUNSEL:

HERBERT M. BIRCH (1905-1996)
 ELLIOT A. GOLDBERG*
 WILLIAM L. GATES*
 EDWARD H. VALANCE
 RUPERT J. BRADY (RET)*
 F. PRINCE BUTLER
 FRED S. WHISENHUNT
 JAMES W. HELLWEGE

*ADMITTED TO A BAR OTHER THAN VA.

SCOTT L. LOWE
 PAUL C. LEWIS
 RICHARD J. GALLAGHER
 JAYNE M. SAYDAH*
 MARYANNE ARMSTRONG, PH.D.
 KECIA J. REYNOLDS
 ROBERT L. SCOTT, II
 KALPANA REDDY
 MARK E. OLDS
 ESTHER H. CHONG
 CATHERINE M. VOISINET*
 EUGENE T. PEREZ

REG. PATENT AGENTS:
 FREDERICK R. HANDREN
 MAKI HATSUMI
 CRAIG A. McROBBIE
 GARTH M. DAHLEN, PH.D.
 ROBERT E. GOOZNER, PH.
 KRISTI L. RUPERT, PH.D.
 MATTHEW T. SHANLEY
 SUSAN W. GORMAN, PH.D.
 DAVID J. CHO
 ROBERT W. DOWNS

03/06/02
 10/091351
 JCE79 U.S. PTO

Date: March 6, 2002

Docket No.: 006126 IMPLANT/ORION/LE

BOX PATENT APPLICATION

Assistant Commissioner for Patents
 Washington, DC 20231

Sir:

As authorized by the inventor(s), transmitted herewith for filing is a patent application applied for on behalf of the inventor(s) according to the provisions of 37 C.F.R. § 1.41(c).

Inventor(s): FARLEY, Marvin; SAKASE, Takao; SATOH, Shu;
 RYDING, Geoffrey; ROSE, Peter

For: INDIRECTLY HEATED BUTTON CATHODE FOR AN ION SOURCE

Enclosed are:

- ☒ A specification consisting of Fourteen (14) pages
- ☒ Two (2) sheet(s) of formal drawings
- ☒ Applicant does not claim priority
- ☐ Applicant claims the right of priority based on Application No(s). filed in on .
- ☐ Certified copy(ies) is(are) attached hereto.
- ☐ Certified copy(ies) will follow.

- ☐ Amend the specification by inserting before the first line thereof the following:
- a. ☐ --This nonprovisional application claims priority under 35 U.S.C. § 119(a) on Patent Application No. _____ filed in _____ on _____, which is herein incorporated by reference.--
- b. ☐ --This nonprovisional application claims priority under 35 U.S.C. § 119(e) on U.S. Provisional Application No. _____ filed on _____, which is herein incorporated by reference.--
- ☒ Executed Declaration in accordance with 37 C.F.R. § 1.64 will follow
- ☐ Applicant claims small entity status under 37 C.F.R. § 1.27
- ☐ Preliminary Amendment
- ☐ Application Data Sheet in accordance with 37 C.F.R. § 1.76
- ☐ Information Disclosure Statement, PTO-1449 and reference(s)
- ☒ Other: Unexecuted Declaration
- ☐ Applicant requests early publication - \$300.00 publication fee
- ☐ Non-publication Request and Certification under 35 U.S.C. § 122(b) (2) (B) (i)

The filing fee has been calculated as shown below:

			LARGE ENTITY	SMALL ENTITY
BASIC FEE			\$740.00	\$370.00
	NUMBER FILED	NUMBER EXTRA	RATE FEE	RATE FEE
TOTAL CLAIMS	19-20=	0	x 18 = \$0.00	x 9= \$0.00
INDEPENDENT CLAIMS	7-3=	4	x 84 = \$336.00	x42= \$0.00
<input checked="" type="checkbox"/> MULTIPLE DEPENDENT CLAIMS PRESENTED			+ \$280.00	+ \$140.00
TOTAL			\$1,356.00	\$0.00

☒ The application transmitted herewith is filed in accordance with 37 C.F.R. § 1.41(c). The undersigned has been authorized by the inventor(s) to file the present application. The original duly executed declaration together with the surcharge will be forwarded in due course.

☒ NO FEE IS ENCLOSED

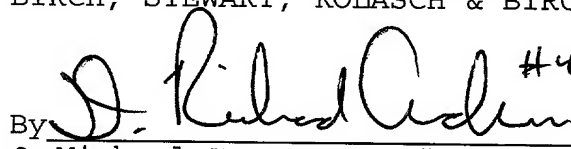
☐ Please charge Deposit Account No. 02-2448 in the amount of \$0.00. A triplicate copy of this transmittal form is enclosed.

☒ Please send correspondence to:

Robert Mulcahy, Esq.
Patent Counsel
Legal Affairs Dept.
Applied Materials, Inc.
Box 450A
Santa Clara CA 95052

Respectfully submitted,

BIRCH, STEWART, KOLASCH & BIRCH, LLP

By  #40,439
for Michael K. Mutter, #29,680

MKM/cqc
1028-0178P

P.O. Box 747
Falls Church, VA 22040-0747
(703) 205-8000

Attachments

(Rev. 09/23/01)

IN THE U.S. PATENT AND TRADEMARK OFFICE

I N F O R M A T I O N S H E E T

Applicant: FARLEY, Marvin; SAKASE, Takao; SATOH, Shu; RYDING, Geoffrey; ROSE, Peter

Appl. No.: New

Filed: March 6, 2002

For: INDIRECTLY HEATED BUTTON CATHODE FOR AN
ION SOURCE

Priority Claimed Under 35 U.S.C. § 119 and/or § 120:

NONE

Send Correspondence to:

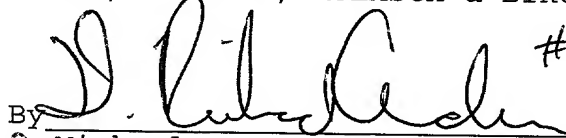
Robert Mulcahy, Esq.
Patent Counsel
Legal Affairs Dept.
Applied Materials, Inc.
Box 450A
Santa Clara CA 95052

The above information is submitted to advise the U.S.P.T.O.
of all relevant facts in connection with the present application.

A timely executed Declaration in accordance with 37 C.F.R.
§ 1.64 will follow.

Respectfully submitted,

BIRCH, STEWART, KOLASCH & BIRCH, LLP

By  #40,439
for Michael K. Mutter, #29,680

P.O. Box 747
Falls Church, VA 22040-0747
(703) 205-8000

MKM/cqc
1028-0178P